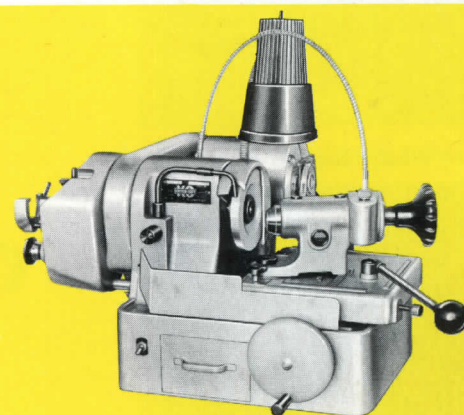


*K. O. Lee***LIFETIME****VALVE REFACERS***Only Lee 'LIFETIME'  
Valve Refacers Offer*

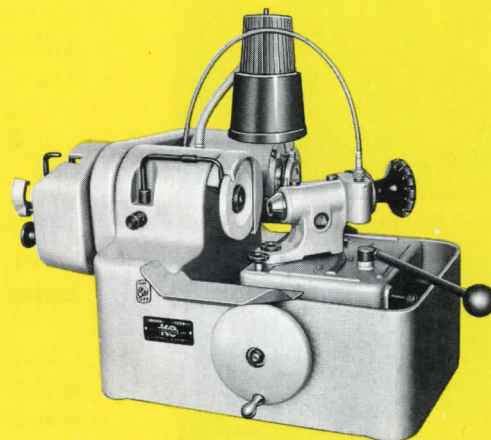
- ★ Industrial grinding machine construction and accuracy.
- ★ V-way table construction — found only on precision grinding machines.
- ★ Positive valve face angle locating — perfect angle face assured.
- ★ Worm-drive valve chuck workhead provides continuous power transmission.
- ★ Specially designed removable (drawer type) coolant tank — designed to assure residue free coolant back to point of grind.
- ★ Valve head chuck warranted accuracy less than .001" total indicator reading for run-out.
- ★ Right hand operation designed machines.

*and*

The only valve refacers offering all automatic pre-load compensation for wear. No mechanical adjustments necessary, or expensive service or parts replacement. Machines retain their original fine accuracy throughout years and years of trouble-free service.

*Name Your Own Warrantee!*

**K403CM STANDARD MODEL**  
GOVERNMENT FEDERAL STOCK NUMBER  
FSN 4910-540-4679  
Complys with Fed. Spec. 00-G-686a



**K500HM HEAVY DUTY MODEL**

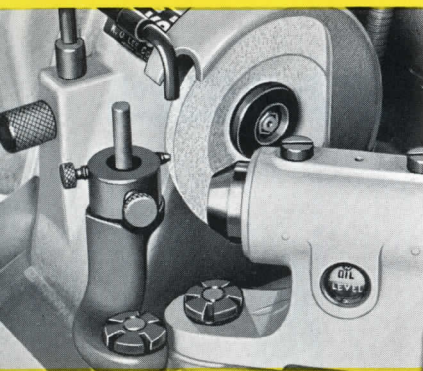
**K. O. LEE COMPANY, ABERDEEN, SOUTH DAKOTA**



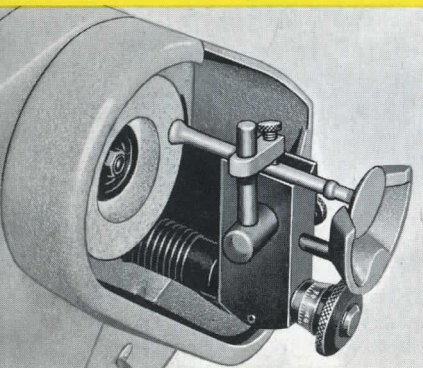
# K. O. LEE "LIFETIME" STANDARD SERIES VALVE REFACERS



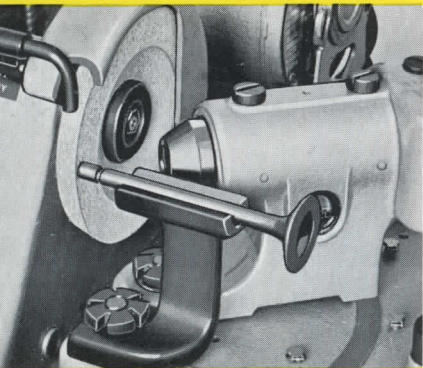
Rocker Arm Attachment



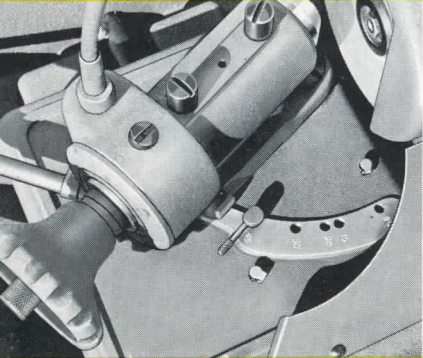
Wheel Dresser



Butt Grinding Attachment

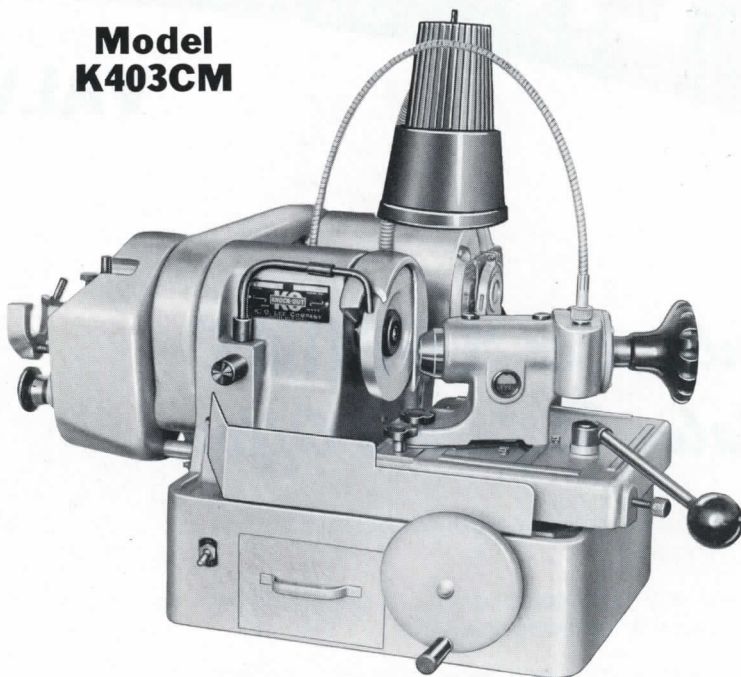


V-Rest for Butt Grinding  
On Machines without Butt Grinder



Positive Stop Angle Settings

Model  
K403CM



*If valves with large diameter heads are to be ground,  
we recommend 1/2 H.P. Model K403H or K403HM.*

The Lee Standard refacer does an exceptionally fine job of grinding valves, providing a super finish seldom equaled by more expensive machines, yet is priced far lower than competitive makes!

This refacer incorporates all of the basic principles of the Lee heavy duty machine and will do equally good grinding. Grinding wheel head is set at an angle to the table ways, thus enabling all valves to be ground with traverse feed. This is an original engineering feature of the Lee Company. Feed screw has V-type thread.

Flexible shaft drive on work head assures chatter-free grind on valve face.

One motor. Simplicity of design, with one motor driving grinding wheel, coolant pump and work head. Induction type motor with no brushes for years of trouble free, low cost service.

This machine is built to quality standards, including V-ways, hardened and ground spindles, collet chucks, precision bearings grease sealed for life, convenient coolant tank, and many other built in features found in no other refacer—regardless of price, provide a LIFETIME machine that will continue to accurately grind valves with super finish year after year. Name your own warrantee!

*Specifications listed on back page.*

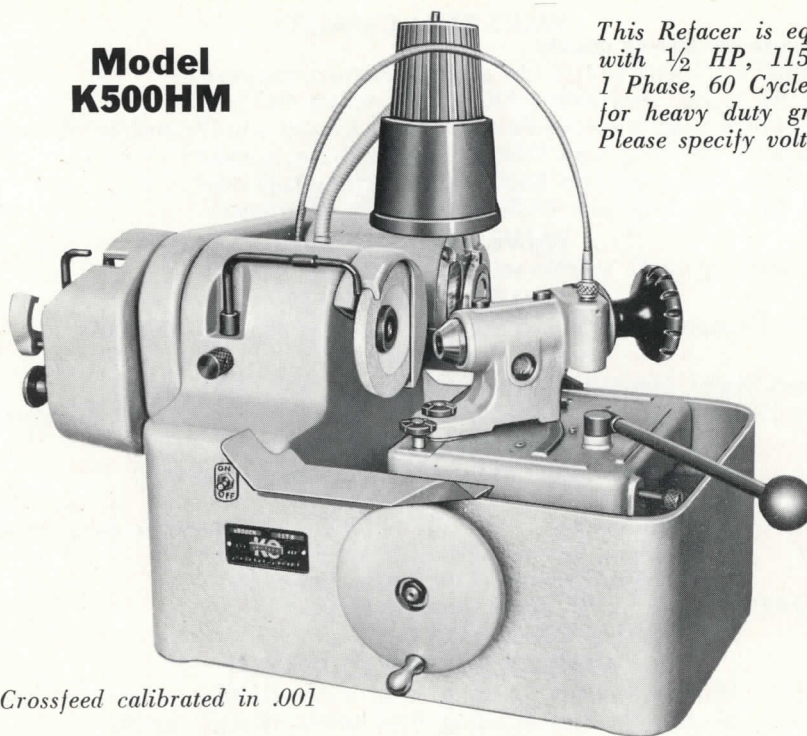


# K. O. LEE "LIFETIME"

## DELUXE HEAVY DUTY SERIES

### VALVE REFACERS

#### Model K500HM



*Crossfeed calibrated in .001*

*This Refacer is equipped with 1/2 HP, 115/230V, 1 Phase, 60 Cycle Motor for heavy duty grinding. Please specify voltage.*

The rugged, impressive appearance of this machine will command the respect of every mechanic. Built for continuous service with features offered only by Lee, it will condition valves, valve lifters, and rocker arms for cars, trucks, tractors and aircraft, marine and stock engines.

The Lee refacer is simple and convenient to operate. The table traverse arm is right-handed and adjusts to any convenient working position by merely turning knob and retightening. A knurled stop screw limits table travel and prevents accidental spindle nose damage.

One gallon tank with long coolant travel through adequate baffle plates to assure clean coolant.

One large capacity valve to feed coolant to either grinding wheel.

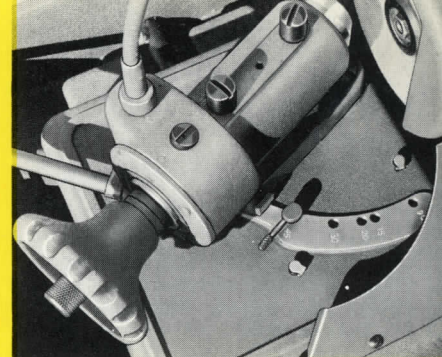
Flexible shaft drive on work head assures chatter-free grind on valve face.

Fork and feed nut are spring loaded to eliminate backlash. Feed screw has National Acme Thread.

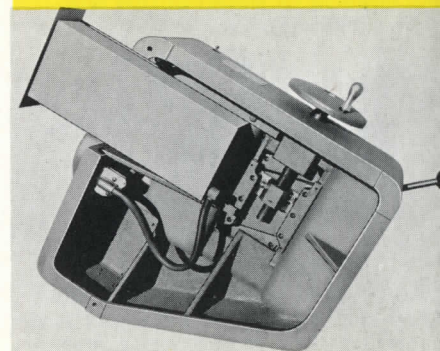
One motor. Simplicity of design, with one motor driving grinding wheel, coolant pump and work head. Induction type motor with no brushes for years of trouble free, low cost service.

This Heavy Duty Refacer is built with machine tool precision, reflecting K. O. Lee's years of machine tool building experience. Compare this machine, feature for feature, for accuracy and for refacing results with any refacer at any price. It has automatic compensation for wear, retaining original unsurpassed precision accuracy for a Lifetime of trouble free service.

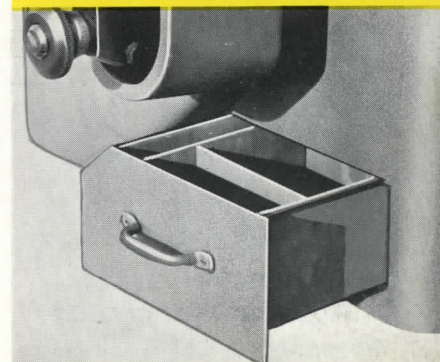
*Specifications listed on back page*



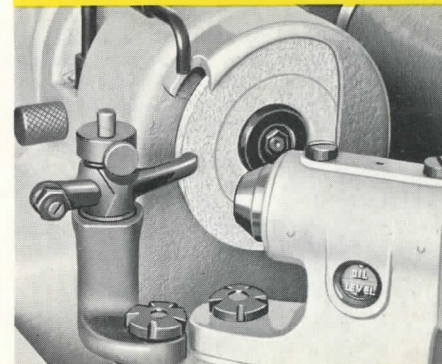
**Positive Stop Angle Settings**



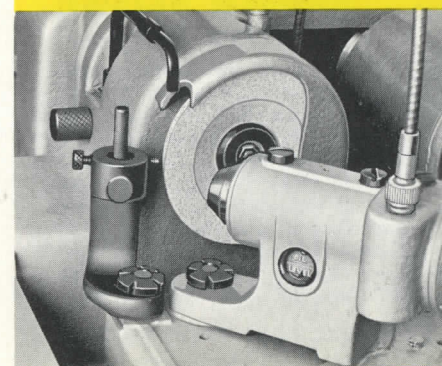
**Sturdy Construction**



**Convenient Coolant Tank**



**Rocker Arm Attachment**



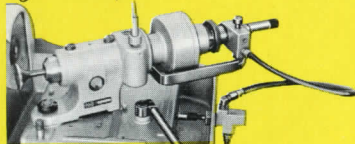
**Wheel Dresser**





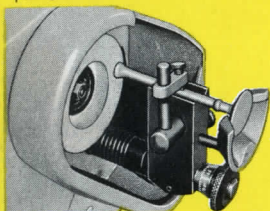
**K541 Air Chuck**  
HAND OPERATED

Straight through design with adjustable plunger for valve stem stop. Plunger can be removed and any length valve ground. Not necessary to remove chuck for over length valves. K541 fits all K. O. Lee Refacers. Grips or releases valve instantly. Assures high speed accurate alignment for production valve refacing. Price \$59.50.



**K541M Automatic Air Chuck**  
K500 SERIES ONLY

Air Switch is operated by the table at end of travel. Not necessary to remove hand from operating lever. Valves can be instantly changed. To install on K500's in the field, it is necessary to drill a  $\frac{1}{4}$ " hole through the base. Template furnished. Price \$69.50.



**Micrometer Butt Grinding Attachment**

Micrometer Butt Grinding Attachment includes depth gauge, a micrometer feed calibrated in .001", wheel guard, butt grinding wheel.

All model refacers are machined for simple adaption. State model number of machine when ordering as separate unit. K436C Attachment is for the K403C, D, and H Series, K536 Attachment is for K500 Series.



**Model K675WC Valve Wagon**

Heavy steel top makes sturdy mounting for valve refacer or tools. Twelve square feet of storage area protected by double swinging doors with 3-point locking device. Back and end stops, 2" high, are integral part of top which may be inverted and reversed to eliminate end stops. Center shelf adjustable on  $1\frac{1}{2}$ " centers. Built in lock. Size 36" wide, 24" deep, 34" high. Wt. 130 lbs.

**MODEL K675P VALVE WAGON**

Same as K675WC except without castors. Wt. 125 lbs.

# K. O. LEE "LIFETIME"

## VALVE REFACERS

### Specifications

Apply To Standard and Deluxe Heavy Duty Models

#### VALVE STEM CAPACITY

##### RANGE AND LENGTH OF COLLET

$\frac{3}{32}$ " to  $\frac{1}{16}$ " x 3" long with K43D collet (standard equipment)  
 $\frac{3}{32}$ " to  $\frac{1}{32}$ " x 2 $\frac{1}{4}$ " long with K43CL collet (extra equipment)  
 K43CL Collet used to service Falcon, Comet, Corvair and Oldsmobile F85 valves  
 $\frac{3}{16}$ " to  $\frac{5}{16}$ " x 1 $\frac{3}{4}$ " long with K43CS collet (extra equipment)  
 $\frac{1}{4}$ " to  $\frac{3}{8}$ " x 1 $\frac{3}{4}$ " long with K43C collet (extra equipment)  
 $\frac{1}{2}$ " to  $\frac{1}{16}$ " x 3" long with K43E collet (extra equipment)

#### VALVE HEAD CAPACITY

Valve heads up to 4" (within valve stem range)

#### VALVE FACE ANGLES

Zero to 90 degrees with minus one degree setting and positive stop

#### WEIGHT

Standard Model, Net Wt. 128 pounds, Shipping Wt. 152 pounds  
 Deluxe Heavy Duty Model, Net Wt. 162 pounds, Shipping Wt. 205 pounds

#### STANDARD EQUIPMENT

K43D Double-end collet, ( $\frac{3}{32}$ " to  $\frac{1}{16}$ " valve stem diameters)  
 K532A Coolant Pump  
 K534 Diamond Holder P176D Diamond Screw in Holder  
 K436V V-Rest (only on machines without Butt Grinder)  
 K450 Rocker Arm Grinding Attachment, cone type  
 OV5GH80S 5" x  $\frac{1}{2}$ " x  $\frac{5}{8}$ " offset grinding wheel  
 2679 Pint Can Lee Concentrate

#### AVAILABLE EXTRA EQUIPMENT

K436C Micrometer Butt Grinding Attachment (K403C Series)  
 K536 Micrometer Butt Grinding Attachment (K500C Series)  
 OV5GH80W 5" x  $\frac{1}{2}$ " x  $\frac{5}{8}$ " offset grinding wheel  
 K37 Sharpening Fixture for Reseater Cutters  
 K43CL Double-end collet ( $\frac{3}{32}$ " to  $\frac{1}{32}$ " valve stems) with K43PL spacer sleeve  
 K43C Double-end collet ( $\frac{1}{4}$ " to  $\frac{3}{8}$ " valve stems) with K43P spacer sleeve  
 K43CS Double-end collet ( $\frac{3}{16}$ " to  $\frac{5}{16}$ " valve stems) with K43P spacer sleeve  
 K43E Double-end collet ( $\frac{1}{2}$ " to  $\frac{1}{16}$ " valve stems)  
 K541 Air Chuck \$59.50  
 K675P Valve Wagon without castors  
 K675WC Valve Wagon with castors  
 K443HL Special workhead. Range  $\frac{5}{8}$ " to  $\frac{7}{8}$ " stems, with straight through double-end ball collet \$190.00  
 2639 Worm Gear Lubricant. Quart can \$1.80  
 2699 Honing oil for valve refacers. Gallon can \$2.40  
 KVU1900 Plastic Cover

### Models Available - Order By Stock Numbers

MODELS AVAILABLE	MOTOR 1/3 HP, 115V 1 Ph., 60 Cy. AC	MOTOR 1/3 HP, 230V 1 Ph., 60 Cy. AC	MOTOR 1/2 H.P., 115/230V, 1 Ph., 60 Cy., AC. Please specify voltage. Motors are dual voltage and can be changed in the field. Instructions on Motor.
Standard Series Without Micrometer Butt Grinding Attachment	K403C	K403D	K403H
Standard Series With Micrometer Butt Grinding Attachment	K403CM	K403DM	K403HM
Deluxe Series Without Micrometer Butt Grinding Attachment			K500H
Deluxe Series With Micrometer Butt Grinding Attachment			K500HM